## For receiving Office use only PCT International Application No. REQUEST International Filing Date The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty. Name of receiving Office and "PCT International Application" Applicant's or agent's file reference (if desired) (12 characters maximum) LP2012PC00 Box No. I TITLE OF INVENTION Process for the asymmetric hydrogenation of beta-amino ketones **APPLICANT** Box No. II This person is also inventor Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Telephone No. Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) Facsimile No. **LONZA AG** Münchensteinerstrasse 38 Teleprinter No. CH-4052 Basel CH Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: CH CH the States indicated in the Supplemental Box This person is applicant the United States of America only all designated States except the United States of America all designated for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this This person is: Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) applicant only METTLER, Hans-Peter applicant and inventor Finkenweg 12 inventor only (If this check-box is CH-3930 Visp marked, do not fill in below.) CH Applicant's registration No. with the Office State (that is, country) of nationality: State (that is, country) of residence: CH CH all designated States all designated States except the United States of America the United States the States indicated in the Supplemental Box This person is applicant for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf common representative agent of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. +41 61 316 8433 LONZA AG Facsimile No. Münchensteinerstrasse 38 +41 61 316 8329 CH-4052 Basel Teleprinter No. CH Agent's registration No. with the Office

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the

space above is used instead to indicate a special address to which correspondence should be sent.

Sheet No. ..2...

Box No. V DESIGNAT	TONS						
The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.							
However,							
DE Germany is not d	esignated for any kind of natio	onal protection					
KR Republic of Kore	a is not designated for any kir	nd of national protection					
RU Russian Federation	RU Russian Federation is not designated for any kind of national protection						
the national law, of an earli	v be used to exclude (irrevocabl er national application from w us in these and certain other St	hich priority is claimed. S	ned in order to avoid the c ee the Notes to Box No. V	ceasing of the effect. under as to the consequences of			
Box No. VI PRIORITY	CLAIM						
The priority of the following	g earlier application(s) is hereb	y claimed:					
Filing date	Number	Where earlier application is:					
of earlier application (day/month/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office			
item (1) 1 September 2003 (01/09/2003)	03077734.6		EP				
item (2)				1			
item (3)							
Further priority claims	s are indicated in the Suppleme	ental Box.					
The receiving Office is required the earlier application was above as:	uested to prepare and transmit t filed with the Office which for t	to the International Bureau the purposes of this interna	a certified copy of the eattional application is the	rlier application(s) (only if receiving Office) identified			
all items item (1) item (2) item (3) other, see Supplemental Box							
* Where the earlier application is an ARIPO application, indicate at least one country party to the Paris Convention for the Protection of Industrial Property or one Member of the World Trade Organization for which that earlier application was filed (Rule 4.10(b)(ii)):							
Box No. VII INTERNA	ATIONAL SEARCHING AU	THORITY					
Choice of International Sinternational Search, indica	Searching Authority (ISA) (if the the Authority chosen; the two	two or more International o-letter code may be used):	Searching Authorities are	competent to carry out the			
ISA /							
Request to use results of International Searching Au	earlier search; reference to the thority):	that search (if an earlier s	earch has been carried o	ut by or requested from the			
Date (day/month/year)	Num		ntry (or regional Office)				
05/02/2004	EP 0	3 07 7734 E	European Patent Off	fice			
Box No. VIII DECLAR	ATIONS						
The following declaration check-boxes below and ind	ns are contained in Boxes Nos licate in the right column the nu	. VIII (i) to (v) (mark the a mber of each type of declar	applicable ration):	Number of declarations			
Box No. VIII (i)	Declaration as to the ident	ity of the inventor		:			
Box No. VIII (ii)		Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent : 1					
Box No. VIII (iii)		Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :					
Box No. VIII (iv)		Declaration of inventorship (only for the purposes of the designation of the United States of America) : 1					
Box No. VIII (v)	Declaration as to non-pre	judicial disclosures or exc	eptions to lack of novelt	у:			

Sheet No. . . 3

Box No. VIII (ii) DECLARATION: ENTITLEMENT TO APPLY FOR AND BE GRANTED A PATENT  The declaration must conform to the standardized wording provided for in Section 212; see Notes to Boxes Nos. VIII, VIII (i) to (v) (in general) and the specific Notes to Box No. VIII (ii). If this Box is not used, this sheet should not be included in the request.					
Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent (Rules 4.17(ii) and 51bis.1(a)(ii)), in a case where the declaration under Rule 4.17(iv) is not appropriate:					
In relation to this international application, LONZA AG is entitled to apply for and be granted a patent by virtue of the following:					
LONZA AG is entitled as employer of the inventor, METTLER, Hans-Peter.					
This declaration is made for the purposes of all designations except the designation of the United States of America.					
	-				
•					
This declaration is continued on the following sheet, "Continuation of Box No. VIII (ii)".					
1 ms declaration is conducted on the following sheet, Continuation of Box 140, VIII (ii) .					

Box No. VIII (iv) DECLARATION: INVENTORSHIP (only for the purposes of the designation of the United States of America)

The declaration must conform to the following standardized wording provided for in Section 214; see Notes to Boxes Nos. VIII, VIII (i) to (v)

(in general) and the specific Notes to Box No.VIII (iv). If this Box is not used, this sheet should not be included in the request.

## Declaration of inventorship (Rules 4.17(iv) and 51bis.1(a)(iv)) for the purposes of the designation of the United States of America:

for the purposes of the designation o	i the United States of America:				
I hereby declare that I believe I am the original, first and sole (if only is listed below) inventor of the subject matter which is claimed and for	one inventor is listed below) or joint (if more than one inventor or which a patent is sought.				
This declaration is directed to the international application of which it forms a part (if filing declaration with application).					
This declaration is directed to international application No. PCT/ $\dots$ to Rule 26 $ter$ ).	(if furnishing declaration pursuant				
I hereby declare that my residence, mailing address, and citizenship a	re as stated next to my name.				
I hereby state that I have reviewed and understand the contents of the above-identified international application, including the claims of said application. I have identified in the request of said application, in compliance with PCT Rule 4.10, any claim to foreign priority, and I have identified below, under the heading "Prior Applications," by application number, country or Member of the World Trade Organization, day, month and year of filing, any application for a patent or inventor's certificate filed in a country other than the United States of America, including any PCT international application designating at least one country other than the United States of America, having a filing date before that of the application on which foreign priority is claimed.					
Prior Applications:					
••••••					
I hereby acknowledge the duty to disclose information that is k 37 C.F.R. § 1.56, including for continuation-in-part applications, mate of the prior application and the PCT international filing date of the c	rial information which became available between the filing date				
I hereby declare that all statements made herein of my own knowledge are believed to be true; and further that these statements were made a made are punishable by fine or imprisonment, or both, under Section false statements may jeopardize the validity of the application or any	with the knowledge that willful false statements and the like so 1001 of Title 18 of the United States Code and that such will ful				
Name: METTLER, Hans-Peter					
Residence: Visp, Switzerland (CH) (city and either US state, if applicable, or country)					
Mailing Address: . Finkenweg.12; .CH-3930.Visp, Switzerlan	d (CH)				
Switzerland (CH)	Date: A g - 3.2 - 2.24 (of signature which is not contained in the request, or of the declaration that is corrected or added under Rule 26ter after the filing of the international application)				
Name:	•••••				
Residence:					
Mailing Address:					
•••••••••					
Citizenship:					
Inventor's Signature:	Date:				
This declaration is continued on the following sheet, "Continuation of the following sheet,"	on of Box No. VIII (iv)".				

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B <sub>0</sub> x N <sub>0</sub> . IX CHECK LIST; LANGUAGE OF FILING						
This international application contains:  (a) in paper form, the following number of	item(s) (mark the applicable check-boxes below and indicate in	Number of items				
sheets:	right column the number of each item);  1.	.				
request (including declaration sheets) : 5	2. Original separate power of attorney	:				
description (excluding	3. Original general power of attorney	:				
sequence listing and/or tables related thereto) : 12	4. copy of general power of attorney; reference number,					
claims : 3	if any:	:				
abstract : 1	5.  statement explaining lack of signature	:				
drawings : 21	6. priority document(s) identified in Box No. VI as item(s):	:				
Sub-total number of sheets : 21 sequence listing :	7. Translation of international application into (language):	:				
tables related thereto :  (for both, actual number of	<ol> <li>separate indications concerning deposited microorganism or other biological material</li> </ol>	:				
sheets if filed in paper form, whether or not also filed in	9. Sequence listing in computer readable form (indicate type and number of carriers)					
computer readable form; see (c) below)	(i) ☐ copy submitted for the purposes of international search under Rule 13 <i>ter</i> only (and not as part of the international application)					
Total number of sheets : 21	(ii) (only where check-box (b)(i) or (c)(i) is marked in left column)					
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter	:				
(i) sequence listing (ii) tables related thereto	(iii) together with relevant statement as to the identity of the copy or copies with the sequence listing mentioned in left column	:				
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence listing (indicate type and number of carriers)					
(i) sequence listing	(i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international					
(ii) tables related thereto	application)	:				
Type and number of carriers (diskette, CD-ROM, CD-R or other) on which are contained the	(ii) (iii) (only where check-box (b)(ii) or (c)(ii) is marked in left column) additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater)	:				
sequence listing:	(iii) together with relevant statement as to the identity of the copy or copies with the tables mentioned in left column					
tables related thereto:	copies with the tables mentioned in left column  11.  other (specify):					
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. 🗖 Oulet (specify).	•				
Figure of the drawings which should accompany the abstract:  none  Language of filing of the international application:  English						
	T, AGENT OR COMMON REPRESENTATIVE					
	gning and the capacity in which the person signs (if such capacity is not obvious from reading	the request).				
	LONZA AG					
0.1	11 2000					
1 y. Kmy	iv. B. Galler					
Dr. Norbert Riegler, Manager Pa	tents Dr. Bernd Gallasch, Mandatory					
	Farmanisia Office was rely					
Date of actual receipt of the purported	For receiving Office use only	ings:				
international application:						
2 Corrected data of natural essaint due to later		eived:				
timely received papers or drawings complet the purported international application:	3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application:					
4. Date of timely receipt of the required corrections under PCT Article 11(2):						
5. International Searching Authority (if two or more are competent): ISA /  6. Transmittal of search copy delayed until search fee is paid						
	For International Bureau use only					
Date of receipt of the record copy by the International Bureau:						

This sheet is not part of and does not count as a sheet of the international application.

## For receiving Office use only FEE CALCULATION SHEET International Application No. Annex to the Request Applicant's or agent's file reference LP2012PC00 Date stamp of the receiving Office Applicant LONZA AG et al. CALCULATION OF PRESCRIBED FEES 100.00 € 🔳 1. TRANSMITTAL FEE . . . . . . . 1,550.00 € S International search to be carried out by (If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.) 3. INTERNATIONAL FILING FEE Where items (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets 21 Where items (b) and (c) of Box No. IX do not apply, enter Total number of sheets number of sheets fee per sheet in excess of 30 i3 additional component (only if sequence listing and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)): [3] 902.00 € 🔳 Add amounts entered at i1, i2 and i3 and enter total at I . . . (Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.) 30.00 € P 4. FEE FOR PRIORITY DOCUMENT (if applicable) 2,582.00€ 5. TOTAL FEES PAYABLE . . . . . . . . . . . . . . . TOTAL Add amounts entered at T, S, I and P, and enter total in the TOTAL box MODE OF PAYMENT authorization to charge deposit account (see below) postal money order cash coupons other (specify): bank draft revenue stamps cheque AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT Receiving Office: RO/ EP (This mode of payment may not be available at all receiving Offices) 28110201 Deposit Account No.: \_\_\_ Authorization to charge the total fees indicated above. Date: 31 August 2004 (31/08/2004) (This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency **LONZA AG** Name: or credit any overpayment in the total fees indicated above. Authorization to charge the fee for priority document. Signature: See Notes to the fee calculation sheet